



# TEST REPORT

## 检测报告

Report No.: CCI220300189  
报告编号: CCI220300189

Report Date: Mar. 21, 2022  
报告日期: 2022 年 03 月 21 日

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**Applicant** : HUIZHOU RND ELECTRONICS CO., LTD.  
**委托单位** : 惠州市瑞能德电子有限公司  
**Address** : Outside Community 6, Zhongkai High-tech Zone, Huizhou City, Guangdong Province China.  
**地址** : 广东省惠州市仲恺高新区 6 号小区外 (厂房)

(The following sample(s) was (were) submitted and identified by client as)

(以下测试样品信息由申请者所提供确认)

**Sample Name** : Li-ion Battery  
**样品名称** : 锂离子电池  
**Model/Item No.** : SJ100  
**型号** :  
**Test Period** : From Mar. 16, 2022 to Mar. 21, 2022  
**测试周期** : 2022 年 03 月 16 日至 2022 年 03 月 21 日  
**Tests Conducted** : As requested by the applicant, for details refer to attached page(s).  
**测试要求** : 根据申请人要求, 详情请参阅附页。

Signed for and on behalf of  
Compliance Control Institute (Guangzhou) Co., Ltd.  
谨代表广州冠鼎检测技术有限公司签字

Approved by 批准人: \_\_\_\_\_

Pascal SHI 史远成

Technical director 技术负责人

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### Executive Summary

#### 测试执行总结

No. 编号	TESTED SAMPLE 送检样品	STANDARD 法规	CONCLUSION 结论
1	Tested material(s) of submitted sample(s) 提交样品的测试材料	Pb, Cd, Hg, CrVI, PBBs and PBDEs - Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 and its subsequent amendments 2011 年 6 月 8 日欧洲议会和理事会 2011/65/欧盟指令及其后续 修正案关于铅, 镉, 汞, 六价铬, 多溴联苯和多溴二苯醚的要求	PASS 合格
2	Tested material(s) of submitted sample(s) 提交样品的测试材料	Phthalates - Commission Delegated Directive (EU) 2015/863 of 31 March 2015 欧盟委员会 2015 年 3 月 31 日的授权指令(2015/863) 关于邻苯 二甲酸盐的要求	PASS 合格



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### TESTS CONDUCTED:

测试结果:

#### 1.1. Lead (Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI))

铅 (Pb)、镉 (Cd)、汞 (Hg)、六价铬 (Cr (VI))

Test Method: With reference to IEC62321-4:2013+A1:2017, IEC 62321-5:2013, IEC62321-7-1:2015, IEC62321-7-2:2017, analyzed by ICP-OES & UV-Vis.

测试方法: 参考 IEC62321-4:2013+A1:2017, IEC 62321-5:2013, IEC62321-7-1:2015, IEC 62321-7-2:2017, 使用 ICP-OES & UV-Vis 分析。

Test Items 检测项目	RL 报告限值 (mg/kg)	Limit 限值 (mg/kg)	Test Result 测试结果 (mg/kg)			
			1	2	5	6
Lead 铅(Pb)	2	1000	N.D.	N.D.	N.D.	N.D.
Cadmium 镉(Cd)	2	100	N.D.	N.D.	N.D.	N.D.
Mercury 汞(Hg)	2	1000	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium 六价铬 (Cr(VI))	2	1000	N.D.	N.D.	N.D.	N.D.
Conclusion 结论			PASS 合格	PASS 合格	PASS 合格	PASS 合格

Test Items 检测项目	RL 报告限值 (mg/kg)	Limit 限值 (mg/kg)	Test Result 测试结果 (mg/kg)	
			3	4
Lead 铅(Pb)	2	1000	N.D.	N.D.
Cadmium 镉(Cd)	2	100	N.D.	N.D.
Mercury 汞(Hg)	2	1000	N.D.	N.D.
Hexavalent Chromium 六价铬 (Cr(VI))	/	Negative 阴性	Negative 阴性	Negative 阴性
Conclusion 结论			PASS 合格	PASS 合格



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### 1.2. Polybrominated Biphenyls (PBBs) and Polybrominated Diphenyl Ethers (PBDEs)

多溴联苯 (PBBs) 和多溴二苯醚 (PBDEs)

Test Method: With reference to IEC 62321-6:2015, analyzed by GC-MS.

测试方法: 参考 IEC 62321-6:2015, 使用 GC-MS 分析。

Test Items 测试项目	RL 报告限值 (mg/kg)	Limit 限值 (mg/kg)	Test Result 测试结果 (mg/kg)		
			1	5	2+6
Mono-bromobiphenyl 一溴联苯	5	/	N.D.	N.D.	N.D.
Di-bromobiphenyl 二溴联苯	5	/	N.D.	N.D.	N.D.
Tri-bromobiphenyl 三溴联苯	5	/	N.D.	N.D.	N.D.
Tetra-bromobiphenyl 四溴联苯	5	/	N.D.	N.D.	N.D.
Penta-bromobiphenyl 五溴联苯	5	/	N.D.	N.D.	N.D.
Hexa-bromobiphenyl 六溴联苯	5	/	N.D.	N.D.	N.D.
Hepta-bromobiphenyl 七溴联苯	5	/	N.D.	N.D.	N.D.
Octa-bromobiphenyl 八溴联苯	5	/	N.D.	N.D.	N.D.
Nona-bromobiphenyl 九溴联苯	5	/	N.D.	N.D.	N.D.
Deca-bromobiphenyl 十溴联苯	5	/	N.D.	N.D.	N.D.
<b>Polybrominated Biphenyls 多溴联苯(PBBs)</b>	/	1000	N.D.	N.D.	N.D.
Mono-bromodiphenyl ether 一溴二苯醚	5	/	N.D.	N.D.	N.D.
Di-bromodiphenyl ether 二溴二苯醚	5	/	N.D.	N.D.	N.D.
Tri-bromodiphenyl ether 三溴二苯醚	5	/	N.D.	N.D.	N.D.
Tetra-bromodiphenyl ether 四溴二苯醚	5	/	N.D.	N.D.	N.D.
Penta-bromodiphenyl ether 五溴二苯醚	5	/	N.D.	N.D.	N.D.
Hexa-bromodiphenyl ether 六溴二苯醚	5	/	N.D.	N.D.	N.D.
Hepta-bromodiphenyl ether 七溴二苯醚	5	/	N.D.	N.D.	N.D.
Octa-bromodiphenyl ether 八溴二苯醚	5	/	N.D.	N.D.	N.D.
Nona-bromodiphenyl ether 九溴二苯醚	5	/	N.D.	N.D.	N.D.
Deca-bromodiphenyl ether 十溴二苯醚	5	/	N.D.	N.D.	N.D.
<b>Polybrominated DiphenylEthers 多溴二苯醚(PBDEs)</b>	/	1000	N.D.	N.D.	N.D.
<b>Conclusion</b> 结论			PASS 合格	PASS 合格	PASS 合格



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### 2. Phthalates (DBP, BBP, DEHP, DIBP)

邻苯二甲酸盐(酯) (DBP, BBP, DEHP, DIBP)

Test Method: With reference to IEC 62321-8:2017, analyzed by GC-MS.

测试方法: 参考 IEC 62321-8:2017, 使用 GC-MS 分析。

Test Substances 检测物质	CAS No. CAS 号	RL 报告限值 (mg/kg)	Limit 限值 (mg/kg)	Test Result 测试结果 (mg/kg)
				1+2+6
Dibutyl phthalate 邻苯二甲酸二丁酯(DBP)	84-74-2	20	1000	N.D.
Butyl benzyl phthalate 邻苯二甲酸丁苄酯(BBP)	85-68-7	20	1000	N.D.
Di(2-ethylhexyl) phthalate 邻苯二甲酸二(2-乙基)己酯(DEHP)	117-81-7	20	1000	N.D.
Diisobutyl phthalate 邻苯二甲酸二异丁酯(DIBP)	84-69-5	20	1000	N.D.
Conclusion 结论				PASS 合格

#### Note:

##### 注释:

1. mg/kg = milligram per kilogram (ppm). mg/kg = 毫克每千克 (ppm)。
2. "I" = not regulated. "I" = 无规定。
3. RL = report limit. RL = 报告限值。
4. N.D. = not detected (less than RL). N.D. = 未检测到 (小于 RL)。
5. Negative = Absence of Cr(VI) coating, Positive = Presence of Cr(VI) coating.  
阴性 = 不存在六价铬涂层/表面层, 阳性 = 存在六价铬涂层/表面层。



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### Test Material List

#### 测试材料清单

Material No. 材料编号	Description 描述	Location 位置
1	Black adhesive plastic with white printing 黑色粘性塑胶带白色印刷	Film 贴膜
2	Black plastic 黑色塑胶	Shell 外壳
3	Silver metal with black print 银色金属带黑色印刷	Bottom ferrule 底部套圈
4	Silvery metal 银色金属	Battery rack shaft 电池架轴
5	Olive green paper with glue 橄榄绿色纸带胶	Insulating paper 绝缘纸
6	Black plastic 黑色塑胶	Battery rack 电池架

### Photo Appendix

#### 样品照片



★★★★★End of Report★★★★★

★★★★★报告结束★★★★★

Compliance Control Institute (Guangzhou) Co., Ltd.

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